

**PHYSICAL COLLOCATION
BELL ATLANTIC - NEW ENGLAND
FCC NO. 11**

FACTORS

	A	B	C	D	E	F	G
LINE NO	ITEM	SOURCE	MA DATA	ME DATA	NH DATA	RI DATA	VT DATA
ANNUAL COST FACTOR							
- Digital Switch - Power (2212.00)							
1	DEPRECIATION	SERVICE COSTS	0.0677	0.0680	0.0677	0.0679	0.0658
2	COST OF MONEY	SERVICE COSTS	0.0548	0.0551	0.0548	0.0550	0.0552
3	INCOME TAX	SERVICE COSTS	0.0222	0.0223	0.0222	0.0222	0.0223
4	OTHER TAX	SERVICE COSTS	0.0002	0.0159	0.0001	0.0109	0.0109
5	MAINTENANCE	SERVICE COSTS	0.0559	0.0329	0.0396	0.0398	0.0459
6	ADMINISTRATION	SERVICE COSTS	0.0424	0.0339	0.0349	0.0366	0.0377
7	TOTAL- Digital Switch ACF	SUM (LINES 1 THRU LINE 6)	0.2432	0.2281	0.2193	0.2324	0.2378
- Land							
8	DEPRECIATION	SERVICE COSTS	0.0000	0.0000	0.0000	0.0000	0.0000
9	COST OF MONEY	SERVICE COSTS	0.1142	0.1126	0.1126	0.1126	0.1126
10	INCOME TAX	SERVICE COSTS	0.0462	0.0456	0.0456	0.0456	0.0456
11	OTHER TAX	SERVICE COSTS	0.0175	0.0156	0.0165	0.0108	0.0106
12	MAINTENANCE	SERVICE COSTS	0.0348	0.0849	0.0623	0.0251	0.0706
13	ADMINISTRATION	SERVICE COSTS	0.0425	0.0334	0.0345	0.0360	0.0371
14	TOTAL- Land ACF	SUM (LINES 8 THRU LINE 13)	0.2552	0.2921	0.2715	0.2301	0.2765
- Building							
15	DEPRECIATION	SERVICE COSTS	0.0254	0.0257	0.0257	0.0238	0.0272
16	COST OF MONEY	SERVICE COSTS	0.0838	0.0824	0.0824	0.0832	0.0818
17	INCOME TAX	SERVICE COSTS	0.0339	0.0333	0.0333	0.0336	0.0331
18	OTHER TAX	SERVICE COSTS	0.0175	0.0156	0.0165	0.0107	0.0106
19	MAINTENANCE	SERVICE COSTS	0.0348	0.0849	0.0623	0.0251	0.0706
20	ADMINISTRATION	SERVICE COSTS	0.0425	0.0334	0.0345	0.0360	0.0371
21	TOTAL- Building ACF	SUM (LINES 15 THRU LINE 20)	0.2379	0.2753	0.2547	0.2124	0.2604
OTHER FACTORS:							
22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.0054	0.0022	0.0022	0.0038	0.0046
23	BUILDING INVESTMENT FACTOR	SERVICE COSTS	0.1993	0.1244	0.0873	0.2013	0.1562
24	EF&I FACTOR - FRC 377C (DC POWER)	SERVICE COSTS	2.7852	2.7852	2.7852	2.7852	2.7852
25	OVERHEAD LOADING FACTOR	COMMISSION PRESCRIBED	1.0000	1.0000	1.0000	1.0000	1.0000
26	BA-NE NAL WEIGHTING FACTOR	SERVICE COSTS	0.638	0.098	0.116	0.098	0.049
27	METRO POWER ZONE WEIGHTING	SERVICE COSTS	0.0772	N/A	N/A	N/A	N/A
28	URBAN POWER ZONE WEIGHTING	SERVICE COSTS	0.3512	0.0866	0.2378	0.4465	0.1673
29	SUBURBAN POWER ZONE WEIGHTING	SERVICE COSTS	0.5123	0.3660	0.4066	0.4480	0.3687
30	RURAL POWER ZONE WEIGHTING	SERVICE COSTS	0.0588	0.5475	0.3557	0.1055	0.4639

PHYSICAL COLLOCATION
Bell Atlantic - New York
FCC - 11
21-Aug-01
DC POWER - WEIGHTED SUMMARY
BASED ON THE AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT
MELDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	<u>A</u>	<u>B</u>	<u>C</u>
	<u>ITEM</u>	<u>SOURCE</u>	<u>BA - NY</u>
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	\$25.82
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	\$19.37
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	\$25.72
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	\$6.43
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE <u>AVERAGE EXPECTED</u> LIVES OF THE POWER EQUIPMENT	LINE 3 + LINE 6	\$25.80

PHYSICAL COLLOCATION
Bell Atlantic - New York
FCC - 11

DC POWER - COST SUMMARY

<u>LINE NO.</u>	<u>A</u> <u>ITEM</u>	<u>B</u> <u>SOURCE</u>	<u>C</u> <u>MONTHLY</u> <u>RECURRING</u>
<u>DC POWER PER AMP</u>			
1	LESS THAN OR EQUAL TO 60 AMPS	WP 1.0, PG 2, LN 11F	\$25.82
2	GREATER THAN 60 AMPS	WP 1.1, PG 2, LN 11F	\$25.72

PHYSICAL COLLOCATION
BELL ATLANTIC - NEW YORK
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DC POWER - LESS THAN OR EQUAL TO 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL DC POWER PLANT UNIT INVESTMENT	WP 2.0, LINE 8	-	-	\$262.90	\$262.90
2 EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$732.24	\$732.24
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$732.24	\$732.24
6 LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0038	-	-	0.0038
7 BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2350	-	0.2350
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$2.78	-	-	\$2.78
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$172.08	-	\$172.08
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$2.78	\$172.08	\$732.24	\$907.10

PHYSICAL COLLOCATION
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DC POWER - LESS THAN OR EQUAL TO 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 1.0, LINE 10	\$2.78	\$172.08	\$732.24	\$907.10
2 DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.85	\$46.57	\$50.43
3 COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.32	\$14.66	\$40.50	\$55.48
4 INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.13	\$5.92	\$16.41	\$22.46
5 OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.09	\$5.45	\$1.54	\$7.08
6 MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.07	\$4.63	\$61.58	\$66.29
7 ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.10	\$6.26	\$26.65	\$33.02
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.71	\$40.78	\$193.25	\$234.75
9 MONTHLY COST	LINE 8 / 12	\$0.06	\$3.40	\$16.10	\$19.56
10 OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11 MONTHLY RATE	LINE 9 x LINE 10	\$0.08	\$4.49	\$21.26	\$25.82
12 DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

**PHYSICAL COLLOCATION
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DC POWER - GREATER THAN 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL DC POWER PLANT UNIT INVESTMENT	WP 2.1, LINE 8	-	-	\$261.85	\$261.85
2 EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$729.32	\$729.32
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$729.32	\$729.32
6 LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0038	-	-	0.0038
7 BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2350	-	0.2350
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$2.77	-	-	\$2.77
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$171.39	-	\$171.39
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$2.77	\$171.39	\$729.32	\$903.48

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DC POWER - GREATER THAN 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 1.1, LINE 10	\$2.77	\$171.39	\$729.32	\$903.48
2 DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.84	\$46.38	\$50.22
3 COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.32	\$14.60	\$40.34	\$55.26
4 INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.13	\$5.90	\$16.34	\$22.37
5 OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.09	\$5.43	\$1.53	\$7.05
6 MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.07	\$4.61	\$61.34	\$66.02
7 ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.10	\$6.24	\$26.55	\$32.89
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.71	\$40.62	\$192.48	\$233.81
9 MONTHLY COST	LINE 8 / 12	\$0.06	\$3.38	\$16.04	\$19.48
10 OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11 MONTHLY RATE	LINE 9 x LINE 10	\$0.08	\$4.47	\$21.17	\$25.72
12 DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

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PHYSICAL COLLOCATION
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DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

<u>LINE NO.</u>	(A) <u>ITEM</u>	(B) <u>SOURCE</u>	(C) <u>DATA</u>
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.0, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.0, LINE 14C	\$34.89
3	BATTERIES	WP 3.0, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.0, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.0, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.0, LINE 40C	\$120.50
7	BATTERY DISTRIBUTION FUSE BAY	WP 3.0, LINE 45C	<u>\$10.25</u>
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$262.90

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PHYSICAL COLLOCATION
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DC POWER - GREATER THAN 60 AMPS

	(A)	(B)	(C)
<u>LINE NO.</u>	<u>ITEM</u>	<u>SOURCE</u>	<u>DATA</u>
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.1, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.1, LINE 14C	\$34.89
3	BATTERIES	WP 3.1, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.1, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.1, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.1, LINE 40C	\$120.50
7	POWER PLANT DISTRIBUTION BAY	WP 3.1, LINE 45C	<u>\$9.20</u>
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$261.85

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DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

LINE NO.	(B) ITEM	(C) SOURCE	(D) MAJOR CITIES	(E) HIGH RISE MAJOR CITIES	(F) URBAN	(G) SUBURBAN	(H) RURAL
Microprocessor Plant (BUSS BAR)							
1	AMP	Engineering	5,000	6,000	2,600	2,600	600
2	Material	Engineering	\$22,800	\$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP Sum (L5D thru L5H)	\$6.28	\$2.54	\$1.09	\$0.84	\$0.44	\$1.38
Rectifiers							
6	Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP Sum (L14D thru L14H)	\$34.89	\$14.46	\$3.53	\$4.41	\$3.54	\$8.94
Batteries							
15	Strings	Engineering	3	4	3	3	2
16	AMPS per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP Sum (L21D thru L21H)	\$46.91	\$26.60	\$6.42	\$5.41	\$4.35	\$4.13
Automatic Breaker							
22	AMP per Breaker	Engineering	1,600	3,200	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$150,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$46.88	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP Sum (L26D thru L26H)	\$36.43	\$17.42	\$6.37	\$4.14	\$4.37	\$4.13
Power Distribution Service Cabinet							
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826

31	Statewide Unit Investment Per AMP Sum (L31D thru L31H)	\$7.64	\$4.88	\$0.68	\$0.62	\$0.92	\$0.54
<u>Emergency engine/turbine (auto start)</u>							
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS (L32 * L33)		1,458	1,458	851	608	195
35	Emerg. Engine Invest.	Engineering	\$125,000	\$125,000	\$38,200	\$33,500	\$21,000
36	Conduit/Emer Lights	Engineering	\$35,000	\$115,000	\$30,000	\$25,000	\$20,000
37	Total Investment (L35 + L36)		\$160,000	\$240,000	\$68,200	\$58,500	\$41,000
38	Unit Investment Per AMP (L37 / L34)		\$109.73	\$164.60	\$80.12	\$96.28	\$210.69
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
40	Statewide Unit Investment Per AMP Sum (L40D thru L40H)	\$120.50	\$61.16	\$22.38	\$9.96	\$9.61	\$17.40
<u>Battery Distribution Fuse Bay</u>							
41	AMP Capacity	Engineering	800	800	800	800	800
42	Material	Engineering	\$8,200	\$8,200	\$8,200	\$8,200	\$8,200
43	Unit Investment Per AMP (L42 / L41)		\$10.25	\$10.25	\$10.25	\$10.25	\$10.25
44	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
45	Statewide Unit Investment Per AMP Sum (L45D thru L45H)	\$10.25	\$5.71	\$1.39	\$1.27	\$1.02	\$0.85
46	<u>Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)</u>	\$262.90					

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DC POWER - GREATER THAN 60 AMPS

LINE NO.	(B) ITEM	(C) SOURCE	(D) MAJOR CITIES	(E) HIGH RISE MAJOR CITIES	(F) URBAN	(G) SUBURBAN	(H) RURAL
	<u>Microprocessor Plant (BUSS BAR)</u>						
1	AMP	Engineering	5,000	6,000	2,600	2,600	600
2	Material	Engineering	\$22,800	\$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP Sum (L5D thru L5H)	\$6.28	\$2.54	\$1.09	\$0.84	\$0.44	\$1.38
	<u>Rectifiers</u>						
6	Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP Sum (L14D thru L14H)	\$34.89	\$14.46	\$3.53	\$4.41	\$3.54	\$8.94
	<u>Batteries</u>						
15	Strings	Engineering	3	4	3	3	2
16	AMPS per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP Sum (L21D thru L21H)	\$46.91	\$26.60	\$6.42	\$5.41	\$4.35	\$4.13
	<u>Automatic Breaker</u>						
22	AMP per Breaker	Engineering	1,600	3,200	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$150,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$46.88	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP Sum (L26D thru L26H)	\$36.43	\$17.42	\$6.37	\$4.14	\$4.37	\$4.13
	<u>Power Distribution Service Cabinet</u>						
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826

31	Statewide Unit Investment Per AMP Sum (L31D thru L31H)		\$7.64	\$4.88	\$0.68	\$0.62	\$0.92	\$0.54
<u>Emergency engine/turbine (auto start)</u>								
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278	
33	Utilization	Engineering	70%	70%	70%	70%	70%	
34	Utilized AMPS (L32 * L33)		1,458	1,458	851	608	195	
35	Emerg. Engine Invest.	Engineering	\$125,000	\$125,000	\$38,200	\$33,500	\$21,000	
36	Conduit/Emer Lights	Engineering	\$35,000	\$115,000	\$30,000	\$25,000	\$20,000	
37	Total Investment (L35 + L36)		\$160,000	\$240,000	\$68,200	\$58,500	\$41,000	
38	Unit Investment Per AMP (L37 / L34)		\$109.73	\$164.60	\$80.12	\$96.28	\$210.69	
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826	
40	Statewide Unit Investment Per AMP Sum (L40D thru L40H)		\$120.50	\$61.16	\$22.38	\$9.96	\$9.61	\$17.40
<u>Power Plant Distribution Bay</u>								
41	AMP Capacity	Engineering	2,600	2,600	1,200	1,200	300	
42	Material	Engineering	\$20,000	\$22,000	\$15,000	\$10,000	\$5,000	
43	Unit Investment Per AMP (L42 / L41)		\$7.69	\$8.46	\$12.50	\$8.33	\$16.67	
44	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826	
45	Statewide Unit Investment Per AMP Sum (L45D thru L45H)		\$9.20	\$4.29	\$1.15	\$1.55	\$0.83	\$1.38
<u>Total Unit Investment - (Greater than 60 AMPs) -Sum Lines</u>								
46	(5C+14C+21C+26C+31C+40C+45C)		\$261.85					

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PAGE 1 OF 1

PHYSICAL COLLOCATION
Bell Atlantic - New York
FCC NO. 11

FACTORS

<u>Line No.</u>	<u>(A)</u> <u>Factor Item</u>	<u>(B)</u> <u>Source</u>	<u>(C)</u> <u>FCC</u> <u>DATA</u>
<u>ANNUAL COST FACTOR</u>			
	- Digital Switch - Power (2212.00)		
1	DEPRECIATION	SERVICE COSTS	0.0636
2	COST OF MONEY	SERVICE COSTS	0.0553
3	INCOME TAX	SERVICE COSTS	0.0224
4	OTHER TAX	SERVICE COSTS	0.0021
5	MAINTENANCE	SERVICE COSTS	0.0841
6	ADMINISTRATION	SERVICE COSTS	0.0364
7	TOTAL- Digital Switch ACF	SUM (LINES 1 THRU LINE 6)	0.2639
	- Land		
8	DEPRECIATION	SERVICE COSTS	0.0000
9	COST OF MONEY	SERVICE COSTS	0.1145
10	INCOME TAX	SERVICE COSTS	0.0463
11	OTHER TAX	SERVICE COSTS	0.0317
12	MAINTENANCE	SERVICE COSTS	0.0269
13	ADMINISTRATION	SERVICE COSTS	0.0364
14	TOTAL- Land ACF	SUM (LINES 8 THRU LINE 13)	0.2558
	- Building		
15	DEPRECIATION	SERVICE COSTS	0.0224
16	COST OF MONEY	SERVICE COSTS	0.0852
17	INCOME TAX	SERVICE COSTS	0.0344
18	OTHER TAX	SERVICE COSTS	0.0317
19	MAINTENANCE	SERVICE COSTS	0.0269
20	ADMINISTRATION	SERVICE COSTS	0.0364
21	TOTAL- Building ACF	SUM (LINES 15 THRU LINE 20)	0.2370
<u>OTHER FACTORS:</u>			
22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.0038
23	BUILDING INVESTMENT FACTOR	SERVICE COSTS	0.2350
24	EF&I FACTOR - FRC 377C (DC POWER)	SERVICE COSTS	2.7852
25	DC POWER - OVERHEAD LOADING FACTOR	COMMISSION PRESCRIBED	1.3200

PHYSICAL COLLOCATION
BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV
FCC - 1

21-Aug-01

DC POWER - WEIGHTED SUMMARY

BASED ON THE AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT
MELEDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	<u>A</u>	<u>B</u>	<u>C</u>
	<u>ITEM</u>	<u>SOURCE</u>	<u>BA - SOUTH</u>
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	\$20.06
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	\$15.05
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	\$20.22
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	\$5.06
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE <u>AVERAGE EXPECTED</u> LIVES OF THE POWER EQUIPMENT	LINE 3 + LINE 6	\$20.10

21-Aug-01

- WEIGHTED -

[illegible]

PHYSICAL COLLOCATION
VERIZON: DC, DE, MD, NJ, PA, VA & WV
FCC - 1

21-Aug-01
DC POWER - GREATER THAN 60 AMPS

- WEIGHTED -

[illegible]

**PHYSICAL COLLOCATION
VERIZON: DC, DE, MD, NJ, PA, VA & WV
FCC - 1**

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

	A	B	C	D	E	F	G	H	I
LINE NO.	ITEM	SOURCE	DEPRECIATION	COST OF CAPITAL	INCOME TAX	MAINT.	ADMIN.	OTHER TAXES	TOTAL
1	WASHINGTON, DC	WP 1.0, PG 1, LINES 2 THRU 7	\$42.15	\$52.90	\$27.96	\$42.52	\$53.40	\$8.57	\$227.50
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	0.03644	0.03644	0.03644	0.03644	0.03644	0.03644	0.2186
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$1.54	\$1.93	\$1.02	\$1.55	\$1.95	\$0.31	\$8.29
4	DELAWARE	WP 2.0, PG 1, LINES 2 THRU 7	\$45.09	\$45.31	\$23.30	\$52.05	\$23.29	\$6.41	\$195.45
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$1.16	\$1.16	\$0.60	\$1.34	\$0.60	\$0.16	\$5.02
7	MARYLAND	WP 3.0, PG 1, LINES 2 THRU 7	\$45.56	\$44.74	\$21.99	\$37.29	\$34.04	\$13.88	\$197.49
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	0.16245	0.16245	0.16245	0.16245	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$7.40	\$7.27	\$3.57	\$6.06	\$5.53	\$2.26	\$32.08
10	NEW JERSEY	WP 4.0, PG 1, LINES 2 THRU 7	\$38.62	\$41.28	\$21.39	\$41.12	\$31.69	\$9.10	\$183.21
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	0.29196	0.29196	0.29196	0.29196	0.29196	1.7518
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$11.28	\$12.05	\$6.25	\$12.01	\$9.25	\$2.66	\$53.49
13	PENNSYLVANIA	WP 5.0, PG 1, LINES 2 THRU 7	\$45.97	\$46.03	\$24.53	\$43.21	\$32.57	\$7.19	\$199.49
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	0.29019	0.29019	1.7411
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$13.34	\$13.36	\$7.12	\$12.54	\$9.45	\$2.09	\$57.89
16	VIRGINIA	WP 6.0, PG 1, LINES 2 THRU 7	\$41.73	\$46.37	\$22.18	\$41.04	\$31.34	\$6.53	\$189.18
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	0.15549	0.15549	0.15549	0.15549	0.15549	0.15549	0.9329
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$6.49	\$7.21	\$3.45	\$6.38	\$4.87	\$1.01	\$29.42
19	WEST VIRGINIA	WP 7.0, PG 1, LINES 2 THRU 7	\$56.79	\$56.81	\$29.46	\$60.76	\$37.64	\$10.74	\$252.20
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26I	0.03782	0.03782	0.03782	0.03782	0.03782	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$2.15	\$2.15	\$1.11	\$2.30	\$1.42	\$0.41	\$9.54

**PHYSICAL COLLOCATION
VERIZON: DC, DE, MD, NJ, PA, VA & WV
FCC - 1**

DC POWER - GREATER THAN 60 AMPS

	A	B	C	D	E	F	G	H	I
LINE NO.	ITEM	SOURCE	DEPRECIATION	COST OF CAPITAL	INCOME TAX	MAINT.	ADMIN.	OTHER TAXES	TOTAL
1	WASHINGTON, DC	WP 1.1, PG 1, LINES 2 THRU 7	\$42.10	\$52.84	\$27.93	\$42.46	\$53.33	\$8.56	\$227.21
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	0.03644	0.03644	0.03644	0.03644	0.03644	0.03644	0.21864
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$1.53	\$1.93	\$1.02	\$1.55	\$1.94	\$0.31	\$8.28
4	DELAWARE	WP 2.1, PG 1, LINES 2 THRU 7	\$45.42	\$45.63	\$23.47	\$52.42	\$23.46	\$6.45	\$196.86
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$1.17	\$1.17	\$0.60	\$1.35	\$0.60	\$0.17	\$5.05
7	MARYLAND	WP 3.1, PG 1, LINES 2 THRU 7	\$46.00	\$45.17	\$22.20	\$37.65	\$34.36	\$14.02	\$199.40
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	0.16245	0.16245	0.16245	0.16245	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$7.47	\$7.34	\$3.61	\$6.12	\$5.58	\$2.28	\$32.39
10	NEW JERSEY	WP 4.1, PG 1, LINES 2 THRU 7	\$38.79	\$41.46	\$21.49	\$41.30	\$31.83	\$9.14	\$184.01
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	0.29196	0.29196	0.29196	0.29196	0.29196	1.7518
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$11.33	\$12.11	\$6.27	\$12.06	\$9.29	\$2.67	\$53.72
13	PENNSYLVANIA	WP 5.1, PG 1, LINES 2 THRU 7	\$46.39	\$46.45	\$24.75	\$43.60	\$32.86	\$7.25	\$201.31
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	0.29019	0.29019	1.7411
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$13.46	\$13.48	\$7.18	\$12.65	\$9.54	\$2.10	\$58.42
16	VIRGINIA	WP 6.1, PG 1, LINES 2 THRU 7	\$42.12	\$46.80	\$22.39	\$41.42	\$31.63	\$6.59	\$190.94
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	0.15549	0.15549	0.15549	0.15549	0.15549	0.15549	0.9329
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$6.55	\$7.28	\$3.48	\$6.44	\$4.92	\$1.02	\$29.69
19	WEST VIRGINIA	WP 7.1, PG 1, LINES 2 THRU 7	\$57.92	\$57.95	\$30.04	\$61.97	\$38.39	\$10.95	\$257.22
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26I	0.03782	0.03782	0.03782	0.03782	0.03782	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$2.19	\$2.19	\$1.14	\$2.34	\$1.45	\$0.41	\$9.73

WORKPAPER 1.0
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**PHYSICAL COLLOCATION
Verizon - Washington, DC
FCC - 1**

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL POWER PLANT UNIT INVESTMENT	WP 1.0, PG 3, LINE 10	-	-	\$221.40	\$221.40
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$616.64	\$616.64
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$616.64	\$616.64
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0170	-	-	0.0170
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.3729	-	0.3729
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$10.48	-	-	\$10.48
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$229.95	-	\$229.95
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$10.48	\$229.95	\$616.64	\$857.07
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 6.0, PG 1, LINE 26C	\$0.38	\$8.38	\$22.47	\$31.23

WORKPAPER 1.0
PAGE 1 OF 3

PHYSICAL COLLOCATION
Verizon - Washington, DC
FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>CKT EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 1.0, PG 2 LINE 10	\$10.48	\$229.95	\$616.64	\$857.07
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$3.79	\$38.36	\$42.15
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$1.19	\$19.78	\$31.94	\$52.90
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.63	\$10.44	\$16.90	\$27.96
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.10	\$2.09	\$40.33	\$42.52
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.65	\$14.33	\$38.42	\$53.40
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.29</u>	<u>\$6.37</u>	<u>\$1.91</u>	<u>\$8.57</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$2.85	\$56.80	\$167.85	\$227.50
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.10	\$2.07	\$6.12	\$8.29

PHYSICAL COLLOCATION
Verizon - Washington, DC
FCC NO. 1

DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	A	B	C	D	E
<u>LIVE NO.</u>	<u>ITEM</u>	<u>SOURCE</u>	<u>METRO</u>	<u>URBAN</u>	<u>SUBURBAN</u>
	<u>Microprocessor Plant (BUSS BAR)</u>				
1	AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18
4	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
	<u>Rectifiers</u>				
6	Quantity	Engineering	6	6	6
7	AMPS per unit	Engineering	400	200	200
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200
9	Utilization	(L6-1) / L6	83.33%	83.33%	83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	\$15.77	\$1.13
	<u>Batteries</u>				
15	Strings	Engineering	3	3	3
16	AMPS per String	Engineering	688	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	<u>Automatic Breaker</u>				
22	AMP per Breaker	Engineering	1,600	1,200	800
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
	<u>Power Distribution Service Cabinet</u>				
27	Amps	Engineering	1,600	800	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19
30	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	<u>Emergency engine/turbine (auto start)</u>				
32	AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27
39	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
40	Statewide Unit Investment Per AMP	\$94.08	\$57.87	\$33.55	\$2.66
	<u>Battery Distribution Fuse Bay</u>				
41	AMP Capacity	Engineering	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
45	Statewide Unit Investment Per AMP	\$6.69	\$4.00	\$2.51	\$0.18
46	Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)				
		\$221.40			

WORKPAPER 1.1
PAGE 2 OF 3

PHYSICAL COLLOCATION
Verizon - Washington, DC
FCC - 1

DC POWER - GREATER THAN 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL POWER PLANT UNIT INVESTMENT	WP 1.1, PG 3, LINE 10	-	-	\$221.12	\$221.12
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$615.86	\$615.86
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$615.86	\$615.86
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0170	-	-	0.0170
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.3729	-	0.3729
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$10.47	-	-	\$10.47
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$229.65	-	\$229.65
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$10.47	\$229.65	\$615.86	\$855.98
11 WEIGHTED UNIT INVESTMENT	INE 10 x WP 6.0, PG 1, LINE 26C	\$0.38	\$8.37	\$22.44	\$31.19

WORKPAPER 1.1
PAGE 1 OF 3

PHYSICAL COLLOCATION
Verizon - Washington, DC
FCC - 1

DC POWER - GREATER THAN 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>CKT EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 1.1, PG 2 LINE 10	\$10.47	\$229.65	\$615.86	\$855.98
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$3.79	\$38.31	\$42.10
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$1.18	\$19.75	\$31.90	\$52.84
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.63	\$10.43	\$16.87	\$27.93
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.10	\$2.09	\$40.28	\$42.46
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.65	\$14.31	\$38.37	\$53.33
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.29	\$6.36	\$1.91	\$8.56
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$2.85	\$56.72	\$167.64	\$227.21
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.10	\$2.07	\$6.11	\$8.28

WORKPAPER 1.1
PAGE 3 OF 3

PHYSICAL COLLOCATION
Verizon - Washington, DC
FCC NO. 1

DC POWER COST DEVELOPMENT - GREATER THAN 60 AMPS

LINE NO.	A ITEM	B SOURCE	C METRO	D URBAN	E SUBURBAN
	<u>Microprocessor Plant (BUSS BAR)</u>				
1	AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18
4	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
	<u>Rectifiers</u>				
6	Quantity	Engineering	6	6	6
7	AMPS per unit	Engineering	400	200	200
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	\$15.77	\$1.13
	<u>Batteries</u>				
15	Strings	Engineering	3	3	3
16	AMPS per String	Engineering	688	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	<u>Automatic Breaker</u>				
22	AMP per Breaker	Engineering	1,600	1,200	800
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
	<u>Power Distribution Service Cabinet</u>				
27	Amps	Engineering	1,600	800	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19
30	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	<u>Emergency engine/turbine (auto start)</u>				
32	AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27
39	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
40	Statewide Unit Investment Per AMP	\$94.08	\$57.87	\$33.55	\$2.66
	<u>Power Plant Distribution Bay</u>				
41	AMP Capacity	Engineering	2,600	1,200	1,200
42	Material	Engineering	\$12,747	\$10,388	\$10,388
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
45	Statewide Unit Investment Per AMP	\$6.41	\$2.93	\$3.25	\$0.23
	<u>Total Unit Investment - (Greater than 60 AMPS) - Sum Lines</u>				
41	(5C+14C+21C+26C+31C+40C + 45C)	\$221.12			

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PHYSICAL COLLOCATION
Verizon - Delaware
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DC POWER - LESS THAN OR EQUAL TO 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	-	\$247.50	\$247.50
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$689.35	\$689.35
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$689.35	\$689.35
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0063	-	-	0.0063
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1548	-	0.1548
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$4.34	-	-	\$4.34
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$106.71	-	\$106.71
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$4.34	\$106.71	\$689.35	\$800.40
11 WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26D	\$0.11	\$2.74	\$17.69	\$20.54

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PHYSICAL COLLOCATION
Verizon - Delaware
FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>E</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>CKT EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$4.34	\$106.71	\$689.35	\$800.40
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.28	\$42.81	\$45.09
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.49	\$8.90	\$35.92	\$45.31
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.25	\$4.58	\$18.47	\$23.30
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.12	\$2.85	\$49.08	\$52.05
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.13	\$3.11	\$20.06	\$23.29
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.08	\$2.05	\$4.27	\$6.41
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.07	\$23.76	\$170.61	\$195.45
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.03	\$0.61	\$4.38	\$5.02

DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
Microprocessor Plant (BUSS BAR)						
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
5	Statewide Unit Investment Per AMP		\$10.53	\$1.64	\$2.76	\$2.53
Rectifiers						
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
14	Statewide Unit Investment Per AMP		\$39.05	\$8.40	\$12.65	\$11.60
Batteries						
15	Strings	Engineering	3	3	3	2
16	AMPS per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
21	Statewide Unit Investment Per AMP		\$38.09	\$11.87	\$11.31	\$10.37
Automatic Breaker						
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
26	Statewide Unit Investment Per AMP		\$37.59	\$9.46	\$10.03	\$12.07
Power Distribution Service Cabinet						
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
31	Statewide Unit Investment Per AMP		\$10.53	\$2.64	\$2.93	\$3.92
Emergency engine/turbine (auto start)						
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
40	Statewide Unit Investment Per AMP		\$104.91	\$29.28	\$26.92	\$21.33
Battery Distribution Fuse Bay						
41	AMP Capacity	Engineering	800	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
45	Statewide Unit Investment Per AMP		\$6.69	\$2.03	\$2.01	\$1.85
Total Unit Investment - (Less than or						
46	Equal to 60 AMP's) - Sum Lines		\$247.50			
(5C+14C+21C+26C+31C+40C+45C)						

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PHYSICAL COLLOCATION
Verizon - Delaware
FCC - 1

DC POWER - GREATER THAN 60 AMPS

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>
<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLDG</u>	<u>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	-	\$249.29	\$249.29
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$694.34	\$694.34
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$694.34	\$694.34
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0063	-	-	0.0063
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1548	-	0.1548
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$4.37	-	-	\$4.37
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$107.48	-	\$107.48
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$4.37	\$107.48	\$694.34	\$806.19
11 WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26D	\$0.11	\$2.76	\$17.82	\$20.69

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PHYSICAL COLLOCATION
Verizon - Delaware
FCC - 1

DC POWER - GREATER THAN 60 AMPS

A	B	C	D	E	F
ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1 TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$4.37	\$107.48	\$694.34	\$806.19
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.30	\$43.12	\$45.42
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.49	\$8.96	\$36.17	\$45.63
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.25	\$4.61	\$18.61	\$23.47
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.12	\$2.87	\$49.44	\$52.42
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.13	\$3.13	\$20.21	\$23.46
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.08</u>	<u>\$2.06</u>	<u>\$4.30</u>	<u>\$6.45</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.08	\$23.94	\$171.85	\$196.86
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.03	\$0.61	\$4.41	\$5.05